



Performance Data Sheet

VSBG511ZNA

General Information

Model	VSBG511ZNA	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	4.4°C (40°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	6230	6250	6080	5750	5300	4770	4190
	Watts	1420	1630	1870	2130	2410	2710	3020
	Amps	6.33	7.36	8.43	9.52	10.6	11.7	12.8
	Lb/h	123	120	119	117	116	114	112
-35	Btu/h	7440	7340	7050	6600	6040	5400	4710
	Watts	1520	1710	1940	2190	2460	2750	3060
	Amps	6.77	7.71	8.73	9.79	10.9	12.0	13.1
	Lb/h	139	137	135	134	133	132	130
-30	Btu/h	8730	8500	8090	7530	6850	6090	5290
	Watts	1610	1790	2000	2240	2510	2800	3110
	Amps	7.15	8.02	8.99	10.0	11.1	12.3	13.4
	Lb/h	157	155	154	153	152	151	149
-25	Btu/h	10100	9760	9220	8540	7740	6860	5940
	Watts	1700	1870	2070	2300	2570	2860	3170
	Amps	7.50	8.31	9.23	10.3	11.4	12.5	13.7
	Lb/h	176	175	174	174	173	172	169
-20	Btu/h	11600	11100	10400	9630	8710	7710	6670
	Watts	1780	1940	2130	2360	2620	2910	3230
	Amps	7.83	8.57	9.46	10.5	11.6	12.8	14.0
	Lb/h	199	198	197	197	196	195	192
-15	Btu/h	13200	12600	11800	10800	9780	8660	7500
	Watts	1870	2010	2200	2420	2680	2980	3300
	Amps	8.15	8.83	9.68	10.7	11.8	13.0	14.4
	Lb/h	224	223	223	222	221	220	218
-10	Btu/h	14900	14100	13200	12100	11000	9710	8430
	Watts	1950	2080	2260	2490	2750	3050	3380
	Amps	8.46	9.09	9.91	10.9	12.0	13.3	14.7
	Lb/h	252	252	251	251	250	248	245
-5	Btu/h	16700	15800	14700	13500	12200	10900	9460
	Watts	2020	2150	2330	2550	2820	3120	3460
	Amps	8.79	9.37	10.2	11.2	12.3	13.7	15.1
	Lb/h	283	283	283	282	281	279	276

0	Btu/h	18600	17600	16400	15100	13700	12100	10600
	Watts	2100	2220	2400	2620	2890	3200	3550
	Amps	9.14	9.68	10.5	11.5	12.6	14.0	15.6
	Lb/h	318	318	318	317	316	314	310
5	Btu/h	20700	19600	18200	16800	15200	13600	11900
	Watts	2170	2290	2460	2690	2970	3290	3650
	Amps	9.52	10.0	10.8	11.8	13.0	14.5	16.1
	Lb/h	357	357	357	356	354	352	348
10	Btu/h	23000	21700	20200	18600	16900	15100	13300
	Watts	2240	2360	2530	2770	3050	3380	3760
	Amps	9.94	10.4	11.2	12.2	13.5	15.0	16.7
	Lb/h	400	400	399	398	396	394	389

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	1.603945E+04	3.336474E+03	1.550291E+01	3.539338E+02
C2	6.415225E+02	4.397122E+01	3.063087E-01	6.647624E+00
C3	1.945990E+02	-4.404008E+01	-2.204119E-01	-1.164633E+00
C4	3.246150E+00	-3.027258E-01	-1.687744E-04	8.510503E-02
C5	-3.112185E+00	-6.183037E-01	-4.821798E-03	1.582742E-02
C6	-2.508658E+00	3.981495E-01	2.003896E-03	1.286842E-02
C7	1.142818E-02	2.934338E-04	1.505366E-05	3.716056E-04
C8	-5.360821E-03	3.249211E-03	1.035657E-05	-1.066769E-04
C9	1.840473E-03	3.140975E-03	2.372006E-05	-8.688510E-05
C10	6.010264E-03	-5.175671E-04	-3.044465E-06	-4.836723E-05

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature



Performance Data Sheet

VSBG511ZNA

General Information

Model	VSBG511ZNA	Refrigerant	R-404A
Test Condition	ARI	Performance Test Voltage	230V ~ 60HZ
Return Gas	18.3°C (65°F) RETURN GAS	Motor Type	PSC

Performance Information

Evap Temp (°F)	Condensing Temperature (°F)							
		80	90	100	110	120	130	140
-40	Btu/h	7760	7130	6610	6160	5710	5210	4610
	Watts	1490	1710	1940	2190	2480	2800	3170
	Amps	7.16	7.75	8.57	9.61	10.9	12.3	14.0
	Lb/h	117	114	113	113	114	114	112
-35	Btu/h	8770	8110	7550	7030	6490	5890	5170
	Watts	1590	1790	2020	2270	2560	2890	3270
	Amps	7.38	7.98	8.82	9.88	11.1	12.6	14.3
	Lb/h	133	130	130	130	130	129	127
-30	Btu/h	9880	9190	8580	7990	7370	6670	5820
	Watts	1670	1870	2090	2340	2630	2960	3350
	Amps	7.59	8.22	9.07	10.1	11.4	12.9	14.6
	Lb/h	151	148	148	148	148	147	143
-25	Btu/h	11100	10400	9720	9060	8340	7530	6560
	Watts	1740	1930	2150	2400	2690	3030	3420
	Amps	7.81	8.45	9.31	10.4	11.7	13.2	14.9
	Lb/h	170	168	168	168	168	166	162
-20	Btu/h	12400	11700	11000	10200	9420	8490	7380
	Watts	1810	1990	2200	2450	2750	3090	3490
	Amps	8.04	8.69	9.56	10.7	12.0	13.5	15.2
	Lb/h	191	190	190	190	190	188	184
-15	Btu/h	13900	13100	12300	11500	10600	9550	8300
	Watts	1870	2050	2260	2500	2800	3150	3550
	Amps	8.27	8.93	9.81	10.9	12.2	13.8	15.5
	Lb/h	213	213	214	214	214	212	208
-10	Btu/h	15500	14600	13800	12900	11900	10700	9330
	Watts	1930	2100	2310	2550	2850	3200	3620
	Amps	8.50	9.17	10.1	11.2	12.5	14.1	15.8
	Lb/h	238	239	240	241	241	239	234
-5	Btu/h	17200	16300	15400	14400	13300	12000	10500
	Watts	2000	2160	2360	2610	2910	3260	3690
	Amps	8.74	9.43	10.3	11.5	12.8	14.4	16.1
	Lb/h	265	267	269	271	271	269	264

0	Btu/h	19000	18100	17100	16000	14800	13400	11700
	Watts	2070	2220	2420	2670	2970	3330	3760
	Amps	8.99	9.69	10.6	11.7	13.1	14.7	16.4
	Lb/h	295	298	300	303	303	302	297
5	Btu/h	21000	20000	19000	17800	16400	14900	13000
	Watts	2150	2300	2490	2740	3040	3410	3850
	Amps	9.26	9.96	10.9	12.0	13.4	15.0	16.7
	Lb/h	327	331	335	338	339	338	333
10	Btu/h	23200	22100	20900	19700	18200	16500	14500
	Watts	2240	2380	2570	2820	3120	3500	3950
	Amps	9.53	10.2	11.2	12.3	13.7	15.3	17.1
	Lb/h	362	367	372	376	378	377	372

COEFFICIENTS	CAPACITY	POWER	CURRENT	MASS FLOW
C1	3.178782E+04	1.466198E+03	1.248035E+01	3.922248E+02
C2	3.378240E+02	4.640718E+01	3.511455E-02	2.653223E+00
C3	-2.808193E+02	8.695065E+00	-1.523151E-01	-3.621260E+00
C4	3.438718E+00	1.492620E-01	2.946384E-04	3.243189E-02
C5	2.091295E+00	-6.302262E-01	1.979011E-04	6.177357E-02
C6	2.239230E+00	-1.078188E-01	1.452691E-03	4.212801E-02
C7	5.866770E-03	4.054813E-03	1.839252E-06	2.002150E-04
C8	-8.342512E-03	3.098421E-04	-1.095871E-06	2.247937E-04
C9	-1.898632E-02	2.946370E-03	4.140965E-08	-2.271729E-04
C10	-8.991439E-03	1.163489E-03	-1.167516E-06	-1.509379E-04

$$\text{Value} = C1 + C2 * Te + C4 * Te^2 + C7 * Te^3 + (C3 + C5 * Te + C8 * Te^2) * Tc + (C6 + C9 * Te) * Tc^2 + C10 * Tc^3$$

Te = Evaporator Temperature

Tc = Condensing Temperature